Kao Specialties Americas LLC

243 Woodbine Street • PO Box 2316 • High Point, NC 27261 USA Phone 336-884-2214 • Fax 336-884-8786



SAFETY DATA SHEET

Conforms to the requirements of the United States Hazard Communication regulation 29 CFR 1910.1200

SECTION 1: CHEMICAL PRODUCT and COMPANY IDENTIFICATION

PRODUCT NAME HERBAVERT PRODUCT CASRN 67583-77-1

PRODUCT DESCRIPTION ALIPHATIC CYCLIC ETHER

SDS DOCUMENT No. K80160

RECOMMENDED USES This product is intended for use in fragrance applications.

RESPONSIBLE PARTY

Kao Specialties Americas LLC 243 Woodbine Street P. O. Box 2316

High Point, NC 27261

Telephone: 1-800-727-2214

Refer to SECTION 16 for information regarding the

MANUFACTURER(s) of this product

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

SECTION 2: HAZARD(S) IDENTIFICATION

PRODUCT CLASSIFICATION per 29 CFR 1910.1200

Skin Corrosion/Irritation Category 2

CLASSIFICATION Serious Eye Damage/Eye Irritation Category 2

Flammable Liquid Category 3

SIGNAL WORD Warning

HAZARD Flammable liquid and vapour.

STATEMENTS Causes skin irritation.

Causes serious eye irritation.

HAZARD PICTOGRAMS





RECOMMENDED SAFETY PRECAUTIONS

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

INJURY PREVENTION

Use explosion-proof equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Wash thoroughly after handling.

Wear chemical-resistant gloves and clothing, eye protection and face protection.

IF ON SKIN: Wash with plenty of soap and water.

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower.

EMERGENCY RESPONSE

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

If skin or eye irritation occurs: get medical attention or advice.

In Case of Fire: Keep away from sources of ignition and use appropriate extinguishing

media.

PRODUCT STORAGE

Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

PRODUCT DISPOSAL

Dispose of contents and container in accordance with local, national, and

international regulations for hazardous wastes.

HAZARDS NOT OTHERWISE CLASSIFIED

PYROPHORIC GASES Not applicable

SIMPLE

ASPHYXIANTS

Not applicable

COMBUSTIBLE DUST Not applicable

Dust Classification	Minimum Ignition Energy (mJ)	Pmax (bar-g)	Rmax (bar/s)	Kst (bar-m/s)	Explosion Severity
Not Applicable					

Definitions for dust classifications are found in OSHA Instruction CPL 03-00-008 Combustible Dust National Emphasis Program (reissued) March 11, 2008, Appendix E, Section 5

Other Known Hazards

None

SECTION 3: COMPOSITION/INFORMATION on INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration (%)
Cyclohexane, 3-ethoxy-1,1,5- trimethyl-	3,3,5-Trimethylcyclohexyl ethyl ether	67583-77-1	~ 100

If any items in the table above are described as CONFIDENTIAL, Kao Specialties Americas LLC considers this information to constitute a Trade Secret.

SECTION 4: FIRST-AID MEASURES

EYES eyes with plenty of water for at least 15 minutes. If necessary, seek medical attention. For skin contact, wash immediately with soap and water. If necessary, seek medical SKIN attention. **INGESTION** If the material is swallowed, get immediate medical attention or advice. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing

Remove contact lens immediately, if present and easy to remove. Immediately flush

INHALATION is difficult, give oxygen.

SYMPTOMS of None known. **EXPOSURE**

NOTES to PHYSICIAN Provide general supportive measures and treat symptomatically.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE Refer to SECTION 9: Physical and Chemical Properties **PROPERTIES**

HAZARDOUS Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or **PRODUCTS of** low molecular weight hydrocarbons. **COMBUSTION**

PROPERTIES THAT COULD INCREASE FIRE or EXPLOSION HAZARD

No known hazards.

EXTINGUISHING Powder, alcohol-resistant foam, CO2 & sand **MEDIA**

FIRE-FIGHTING INSTRUCTIONS

Firefighters should wear full protective clothing including self contained breathing

apparatus.

NFPA ratings are found in SECTION 16

SECTION 6: ACCIDENTAL RELEASE MEASURES

FOR ALL TRANSPORTATION ACCIDENTS, call Chemtrec at 800-424-9300 or 703-527-3887 for international collect calls.

RESPONSE TO SMALL SPILLS OF PRODUCT

SPILL CONTAINMENT Stop the flow of material, if this is without risk. Contain the discharged material.

SPILL CLEANUP PROCEDURES

Absorb spill with inert material. Shovel material into appropriate container for disposal.

REQUIRED EQUIPMENT

Shovel the material into waste container.

ADDITIONAL INFORMATION

No other spill procedures necessary.

RESPONSE TO LARGE SPILLS OF PRODUCT

SPILL CONTAINMENT

Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Prevent liquid from entering sewers. Keep out of drains and water courses.

SPILL CLEANUP PROCEDURES

Eliminate ignition sources including sources of electrical, static or frictional sparks. Absorb spill with inert material. Shovel material into appropriate container for disposal. Thoroughly wash the area with water after a spill or leak clean-up. Dispose of spent absorbent in an approved industrial waste landfill.

REQUIRED EQUIPMENT

Wear appropriate protective equipment and clothing during clean-up.

ADDITIONAL INFORMATION

Surfaces may become slippery after spillage. Have emergency equipment readily available. Remove soiled clothing and launder before reuse.

SECTION 7: HANDLING AND STORAGE

HANDLING REQUIREMENTS

As with all chemicals, good industrial hygiene practices should be followed when handling this material. Do not get this material in your eyes, on your skin, or on your clothing. Wash thoroughly after handling. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or promptly disposed of. Keep this product from heat, sparks, or open flame.

Eliminate all sources of ignition.

STORAGE REQUIREMENTS Storage area should be protected by appropriately designed containment to prevent release to groundwater or sewers.

Do not store this material in open or unlabeled containers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Use explosion-proof equipment if high dust/air concentrations are possible.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION

Wear chemical goggles.

HAND PROTECTION

Use impervious gloves.

SKIN PROTECTION

Normal work clothing (long sleeved shirts and long pants) is recommended.

RESPIRATORY PROTECTION

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever there may be potential for airborne

exposure.

OTHER

Eyewash fountains and emergency showers are required.

EXPOSURE LIMITS

CHEMICAL CASRN PERCENT LIMITS AGENCY

OSHA: No exposure limits established for this product **ACGIH**: No exposure limits established for this product

SECTION 9: PHYSICAL and CHEMICAL PROPERTIES

 APPEARANCE @ 20°C
 Clear, colorless liquid
 ODOR
 Characteristic odor

ODOR THRESHOLD No data available pH No information available

VAPOR DENSITY No data available VAPOR PRESSURE No data available

EVAPORATION RATE No data available RELATIVE DENSITY 0.84g/mL @ 20°C

MELTING POINT (°C) No data available WATER SOLUBILITY Insoluble in water

BOILING RANGE INITIAL BOILING No data available No data available POINT (°C) (°C) **PARTITION** COEFFICIENT (N-No data available **VISCOSITY** No data available OCTANOL/WATER) DECOMPOSITION **FLAMMABILITY CLASS II** No data available **TEMPERATURE** CLASSIFICATION 51°C **AUTO-IGNITION** FLASH POINT (°C) PENSKE-MARTENS CLOSED No data available **TEMPERATURE** CUP **UPPER EXPLOSIVE LOWER** No data available No data available **EXPLOSIVE LIMIT** LIMIT

SECTION 10: STABILITY and REACTIVITY

CHEMICAL STABILITY | Stable under normal conditions.

CONDITIONS to

AVOID

Keep away from heat, sparks, or open flame.

INCOMPATIBLE

MATERIALS (Reactivity)

None known.

INCOMPATIBLE

MATERIALS (Storage

& Transport)

No information available.

HAZARDOUS DECOMPOSITION

PRODUCTS

None known.

HAZARDOUS

POLYMERIZATION

Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE EFFECTS

EYE EFFECTS This product is irritating to the eyes.

SKIN EFFECTS This product is irritating to the skin.

ACUTE ORAL EFFECTS

(INGESTION)

Not a likely route of entry.

ACUTE INHALATION

EFFECTS

This product may cause slight irritation to the respiratory system.

TARGET ORGANS

No known effects.

CHRONIC EFFECTS

TERATOLOGY

No data available for this product.

REPRODUCTIVE and DEVELOPMENTAL TOXICITY

No information available.

CARINOGENICITY

CHEMICAL NAME DATA AGENCY LIST

None of the components of this product are listed on the OSHA Possible or Select Carcinogens Lists. None of the components of this product are listed on the ACGIH Carcinogens List.

No limits established for this product by the International Agency for Research on Cancer (IARC).

None of the components of this product are listed on the NTP Known or Suspected Carcinogens List.

LETHAL DOSE (LD50 & LC50) DATA

No information available for this product.

MEDICAL CONDITIONS AGGRAVATED by EXPOSURE

No information available.

ROUTES of ENTRY

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

SECTION 12: ECOLOGICAL INFORMATION

UN GHS AQUATIC TOXICITY CLASSIFICATION INFORMATION

AQUATIC TOXICITY CLASSIFICATION

Not classified as hazardous to aquatic environment

SIGNAL WORD Not applicable

HAZARD Not applicable

HAZARD STATEMENT | Not applicable

PREVENTION Not applicable

RESPONSE Not applicable

DISPOSAL Not applicable

ADDITIONAL ENVIRONMENTAL INFORMATION

- 1

ECOTOX.
INFORMATION

None determined

ENVIRONMENTAL

FATE

No data available for this product.

BIOLOGICAL

(BOD5), g/g

OXYGEN DEMAND

No data available

CHEMICAL OXYGEN

DEMAND (COD), g/g

No data available

PERSISTENCE & DEGRADABILITY

No information available.

BIOACCUMLATION No information available

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DESCRIPTION Wastes must be tested using methods described in 40 CFR Part 261 to determine if it

meets applicable definitions of hazardous wastes.

GENERAL DISPOSAL CONSIDERATIONS

Clean up and dispose of waste in accordance with all federal, state, and local

environmental regulations.

DISPOSAL of EMPTY

Dispose of waste material according to Local, State, Federal, and Provincial

CONTAINERS Environmental Regulations.

RCRA COMPONENT CASRN DATA

No limits established for this product.

SECTION 14: TRANSPORT INFORMATION

	US DOT	IATA	IMDG	
UN NUMBER	UN3271	UN3271	UN3271	
UN PROPER SHIPPING NAME	Ethers, n.o.s.	Ethers, n.o.s.	Ethers, n.o.s.	
TECHNICAL NAME	contains cyclohexane, 3- ethoxy-1,1,5-trimethyl-	contains cyclohexane, 3- ethoxy-1,1,5-trimethyl-	contains cyclohexane, 3- ethoxy-1,1,5-trimethyl-	
TRANSPORT HAZARD CLASS(ES)	3	3	3	
PACKING GROUP	Ш	Ш	Ш	
REPORTABLE QUANTITY (RQ)	No reportable quantity for this product			
EMERGENCY RESPONSE GUIDEBOOK (ERG) REFERENCE	127			
MARINE POLLUTANT	None			

SECTION 15: REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA)	This product is listed on the U.S. EPA TSCA Inventory.
EXPORT NOTIFICATIONS	This product is not subject to TSCA 12B Export Notification requirements.
SIGNIFICANT NEW USE RULE (SNUR)	This material is not subject to a Significant New Use Rule under the US Toxic Substances Control Act.

INTERNATIONAL CHEMICAL INVENTORIES

All of the components of this product are listed on the following inventories:

DSL	Canada	No	
NDSL	Canada	Yes	
ENCS	Japan	Yes	Limited
EINECS	Europe	Yes	Registry No. 266-722-5

ELINCS	Europe	No
IECSC	China	Yes
PICCS	Philippines	Yes
ECL	Korea	Yes
AICS	Australia	Yes

EMERGENCY PLANNING and COMMUNITY RIGHT TO KNOW ACT (EPCRA) 40 CFR PART 355, APPENDIX A

EHS COMPONENTS	CASRN	PERCENT	TPQ POUNDS and RQ
No limits established for this product.			
313 COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for this product.			
CERCLA/SARA COMPONENTS	CASRN	PERCENT	REPORTING LIMIT
No limits established for this product.			

EPCRA SECTION 311/312 CLASSIFICATION

ACUTE	Yes
CHRONIC	No
FIRE	No
PRESSURE	No
REACTIVE	No

OTHER FEDERAL REGULATIONS

The following components are identified under the Clean Air Act HON-Rule for SOCMI chemicals:

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act (VOCs in SOCMI chemicals):

COMPONENT NAME	CASRN
No regulated components	

The following components are identified under the Clean Air Act as Hazardous Air Pollutants (HAP)

COMPONENT NAME

CASRN

No regulated components			
The following components are identif	ied under the Clean Air Act	t HON-Rule Hazardous Air Pollutant	:s
(HAP)		ı	
COMPONENT N	IAME	CASRN	
No regulated components			
		I	
The following components are identif	iad under the Clean Water	· Act	
The following components are identifi	ied under the clean water	Act.	
COMPONENT NAME	CASRN	LIST NAME	
No limits established for this product.			
STATE RIGHT-TO-KNOW INFORMATIO	nN•		
1	1		
COMPONENT NAME	CASRN	STATE List Name	<u>:</u>

If the STATE RIGHT-TO-KNOW INFORMATION table above is empty than none of the components of this product are included on the state right-to-know regulatory lists for California, Florida, Massachusetts, Michigan, Pennsylvania, or New Jersey.

SECTION 16: OTHER INFORMATION

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of its affiliates, make any representations or warranties (expressed or implied), nor assumes any liability (including liability for any direct, incidental, consequential, or other damages) with respect to the accuracy or completeness of the information contained herein. Such information may be (without limitation) invalid if the specified material is used in combination with another, in a particular process, or under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who assumes all risk and responsibility therefore. All materials may present unknown hazards and should be used with appropriate caution. The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.

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MANUFACTURER(S)

KAO CORPORATION, S.A. Puig dels Tudons, 10 BARBERA DEL VALLES Barcelona, Spain 08210

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0

Hazardous Material Identification System (HMIS) Hazard Ratings

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
PERSONAL	D
PROTECTION	٦

The following components of this product are listed on the Canadian WHMIS Ingredient Disclosure List (IDL):

COMPONENT	CASRN	PERCENT	MINIMUM
			CONCENTRATION

No regulatory limits established for this product.

END OF DOCUMENT